

~~RESONATOR ARRANGEMENT FOR SOLID STATE LASERS~~

CLAIMS

Insert 3

1 1. Stable resonator for solid-state lasers which exhibit a thermally induced
2 lensing effect, with a laser rod, a rear mirror and a semi-reflecting output
3 mirror, characterized in that the rear mirror is convex, that the end of the laser
4 rod facing the rear mirror is also convex, and that the output mirror is formed
5 by the other end of the laser rod, wherein this end is semi-reflecting.

1 2. The resonator according to claim 1, characterized in that the semi-reflecting
2 end of the laser rod is formed planar.

1 3. The resonator according to the preamble of claim 1, characterized in that the
2 rear mirror is ~~convex~~, that the end of the laser rod facing the rear mirror is
3 also convex, and that the output mirror is arranged in close proximity to the
4 end of the laser rod, preferably at a distance of less than approximately 10
5 mm.

1 4. Stable resonator for solid-state lasers which exhibit a thermally induced
2 lensing effect, with a laser rod, a rear mirror and a semi-reflecting output
3 mirror, characterized in that the rear mirror is convex, that the end of the laser
4 rod facing the rear mirror is planar, that the other end of the laser rod is
5 convex, and that the output mirror is formed by the other end of the laser rod,
6 wherein this end is semi-reflecting.

5. The resonator according to the preamble of claim 4, characterized in that the rear mirror is convex, that the end of the laser rod facing the rear mirror is planar, that the other end of the laser rod is convex, and that the output mirror is arranged in close proximity to the end of the laser rod, preferably at a distance of less than approximately 10 mm.

1 6. Resonator according to one of the claims 1 to 5, characterized in that the
2 laser rod is a Nd:YAG, Er:YAG, Ho:YAG, Nd:glass rod.

[illegible]